PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		a portable 4/16							
T 45172WO/NZ/hs	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)							
PCT/DE2004/001554	16.07.2004	21.07.2003							
International Patent Classification (IPC) or national classification and IPC									
B41M3/14, B41M1/36, B42D15/00									
Applicant									
LEONHARD KURZ GMBH & CO. KG									
This report is the international preli- under Article 35 and transmitted to to	iminary examination report, established by	this International Preliminary Examining Authority							
	_	luding this cover sheet.							
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3. This report is also accompanied by A		al auto de Gallerina							
a. (sent to the applicant and	d to the International Bureau) a total of	sheets, as follows:							
sheets of the descri sheets containing r Instructions).	iption, claims and/or drawings which have be ectifications authorized by this Authority (s	ocen amended and are the basis for this report and/or ee Rule 70.16 and Section 607 of the Administrative							
- shorts which suppor	rsede earlier sheets, but which this Authorit	y considers contain an amendment that goes beyond							
the disclosure in the Box.	he international application as filed, as indi	icated in item 4 of Box No. I and the Supplemental							
	al Bureau only) a total of (indicate type and n	number of electronic carrier(s))							
b. (sent to the International	Pareus Day, a total of (maione type min								
	ar modely form only as indicated in the S	, containing a sequence listing and/or tables Supplemental Box Relating to Sequence Listing (see							
Section 802 of the Admini	istrative Instructions).								
4. This report contains indications rela	ating to the following items:								
Box No. I Basis of the	he report								
Box No. II Priority									
	blishment of opinion with regard to novelty,	inventive step and industrial applicability							
N	Box No. IV Lack of unity of invention Reasoned statement under Article 25(2) with regard to novelty, inventive step or industrial applicability;								
Box No. v	Box No. V citations and explanations supporting such statement								
Box No. VI Certain documents cited									
Box No. VI Certain d	ocuments cited								
	defects in the international application								
Box No. VII Certain d									
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International application No.
PCT/DE2004/001554

Box	No. I	Basis of the report					
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 						
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)						
		international preliminary examination (Rule 55.2 and/o	or 55.3)				
2.							
	the de	escription:					
	pages	···					
	pages		received by this Authority on				
	pages	S*	received by this Authority on				
	the cl	laims:					
	nos.	1-24	as original	lly filed/furnished			
	nos.*		as amended (together with any statement) under Article 19			
	nos.*		received by this Authority on	<u>.</u>			
	nos.*						
	the d	rawings:					
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l	a seq	uence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.				
3.	The a	amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.							
1	the description, pages						
	\Box						
	the drawings, sheets/figs						
	the sequence listing (specify):						
	If item 4 a	any table(s) related to sequence listing (specify): pplies, some or all of those sheets may be marked "sup	erseded."				

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			statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; and explanations supporting such statement		
1.	Statement				
	Novelty (N)	Claims	1-24	YES	
		Claims		NO NO	
	Inventive step (IS)	Claims	1-24	YES	
		Claims		NO NO	
	Industrial applicab	oility (IA) Claims	1-24	YES	
		Claims		NO	
1					

- 2. Citations and explanations (Rule 70.7)
 - 1 This report makes reference to the following documents:
 - D1: US 4 715 623 A (CANTOR JOSHUA C ET AL)
 29 December 1987 (1987-12-29)
 - D2: "DUDEN; Das große Wörterbuch der deutschen Sprache in sechs Bänden", Volume 4, page 1783; 1977 reprint

Document D2 was not listed in the international search report. A copy of the document is attached.

Document D1 is considered the prior art closest to the subject matter of claim 1 and discloses [see figures 15 and 16; column 5, line 32 to column 6, line 4] a method in which a printing substance (32) is applied using a printing method to form a pattern on a substrate (20) and in which, before the printing substance (32) is applied, a surface structure (27) comprising a number of grooves is replicated in the surface of the substrate (20), from which the subject matter of independent

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

claim 1 differs in that the surface structure is microscopic and in that the fine structuring of the surface pattern is determined by the locally applied quantity of the printing substance and the local relief parameters of the microscopic surface structure. The subject matter of claim 1 thus meets the requirements of PCT Article 33(2).

The present invention can therefore be considered to address the problem of being able to produce a surface pattern with a high resolution. The solution to this problem as proposed in claim 1 of the present application meets the requirements of PCT Article 33(3) for the following reasons: the solution is not disclosed by any of the documents cited in the international search report and is also not suggested by a combination thereof.

Document D1 is also considered the prior art closest to the subject matter of claim 17 and discloses [see the passages cited above] a multilayer element (20) that comprises a substrate layer and a patterned layer arranged on the substrate layer, the patterned layer consisting of a printing substance (32) that is applied using a printing method to form a pattern on the substrate layer, a surface structure (27) comprising a number of grooves being replicated in the surface of the substrate layer, said surface structure being visible to the naked eye, from which the subject matter of independent claim 17 differs in that the surface structure is microscopic, that is

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

can be recognised only with the aid of a microscope. The subject matter of claim 17 thus meets the requirements of PCT Article 33(2).

The present invention can therefore be considered to address the problem of achieving fine structuring of the surface pattern and a higher resolution. The solution to this problem as proposed in claim 17 of the present application meets the requirements of PCT Article 33(3) for the following reasons: the solution is not disclosed by any of the documents cited in the international search report and is also not suggested by a combination thereof.

- 4 Claim 22 concerns a device that is configured specifically for producing products as per claim 17 and therefore the subject matter of claim 22 meets the requirements of PCT Article 33(2) and (3) for the same reasons as specified above in relation to claim 17.
- 5 Claims 2-16, 18-21 and 23-24 are dependent on claims 1, 17 and 22, respectively, and therefore likewise meet the PCT requirements for novelty and inventive step.